# INDEX

## CONTRIBUTORS

### Principal Articles


BELTRÁN, E., Cutaneous Leishmaniasis in Mexico, 108 (translation; original Spanish text, 109)
BENDER, J. F., Do You Know Someone Who Stutters?, 221
BERGMANN, G., An Empiricist's System of the Sciences, 140
BOYAJIAN, A., A. A. Michelson Visits Immanuel Kant, 438
BROCKETT, P., National Academy of Sciences Medal Awards, 424
BRODY, S., Science and Social Wisdom, 203
BRYAN, G. S., World Maps, 245

CARLSON, A. J., Science and the Supernatural, 85 (reprinted)
CHAMBERLIN, T. C., The Method of Multiple Working Hypotheses, 357 (reprinted)
COCKERELL, T. D. A., Secondary Education in Britain, 307
CODE, J. A., JR., Science in Signal Corps Development, 5

DADOURIAN, H. M., The Principle of the Unobservable, 293
DANSEREAU, P., Science in French Canada, I, 188; II, 261
DUNLAP, K., The Great Aryan Myth, 296

EMBREE, J. F., Gokkanosho: A Remote Corner of Japan, 343

FURER, J. A., Science Works with the Armed Forces, 130

GIFFORD, J. C., Trees of South Florida, I, 21; II, 101
GLICKSBERG, C. I., The Unity of Science in Education, 16; Literature and Science: A Study in Conflict, 467
GUDGER, E. W., The Earliest Winged Fish-Catchers, 120
GUNDERSEN, A., and G. T. HASTINGS, Interdependence in Plant and Animal Evolution, 63

HAMBLETON, E. J., Economic Entomology in South America, 283
HASTINGS, G. T., see GUNDERSEN, A.
HAUSMAN, L. A., Applied Microscopy of Hair, 195
HEDGPETH, J. W., The Passing of the Salmon, 370
HILLIER, J., see ZWORYKIN, V. K.
HOLMES, L. A., Reclaiming Stripped Lands in Illinois, 414
HOLMES, S. J., The Problem of Organic Form, I, 226; II–III, 253; IV, 379

JARVIS, C. S., Precipitation and Stream Flow, 96

KANNER, L., Convenience and Convention in Rearing Children, 301
KLEINSCHMIDT, H. E., Evolution of the Wheel, 273
KOENIG, D., Telegraphs and Telegrams in Revolutionary France, 431

LAMSON, P. D., Biotrepy—The Goose of the Golden Eggs, 215
LEHMAN, H. C., Man's Most Creative Years, Quality Versus Quantity of Output, 384
LINDSAY, R. B., On the Relation of Mathematics and Physics, 456

MCCUBBIN, W. A., Air-Borne Spores and Plant Quarantines, 149
MILLER, E. W., Cleveland—A Great Lake's Port, 180
MILTON, C., Stones from Trees, 421
MONTAGU, M. F. A., Physical Characters of the American Negro, 56
MULLETT, C. F., This Brave New World Again, 461

PERRINE, J. O., Crystal Quartz: Mechanical Ally of Electricity, 325
PERUTZ, M. F., Proteins: The Machines of Life, 47

REINARTZ, E. G., Aviation Medicine in the Army, 451

SIMMONS, J. S., Wartime Importance of Tropical Diseases, 405
STIEGLITZ, E. J., Senescence and Industrial Efficiency, II, 9

TAEUSCH, C. F., Are We Facing Seven Lean Years?, 133
TSENG, C. K., Utilization of Seaweeds, 37

VISHER, S. S., When American Seasons Begin, 363

WILSON, C. M., School of Pan American Agriculture, 29

ZWORYKIN, V. K., and J. HILLIER, Electronic Microscopy, 165


### Science on the March


ALBRECHT, W. A., Soils Take a Rest, 235

BEVAN, ARTHUR, Whither Petroleum?, 233
BROMLEY, S. W., Camouflage Paint Spray, 75

DELLA VIDA, G., An Arabic Block Print, 473

FOX, DENIS L., Fossil Pigments, 394

KROGMAN, W. M., Families and Bad Teeth, 235

MEYER, B. S., Photoperiodism in Plants, 73; Photosynthesis or Photosyntheses?, 313

ROBERTS, F. H. H., JR., Etna Cave, Nevada, 153

STETSON, H. T., The New Cycle of Sunspots, 73; The Case of Television, 155

### Book Reviews

ALLEE, R. R., *Middle America*, by Charles Morrow Wilson, 398

BOTTS, A. K., *The Passing of the European Age*, by Eric Fischer, 480
BROWN, F., *Principles of Behavior*, by Clark L. Hull, 161
BRYAN, G. S., *Look at the World*, by Richard Edes Harrison, 475

FOSTER, A. S., *Garden Islands of the Great East*, by David Fairchild, 77

GAFAFER, W. M., *Industrial Ophthalmology*, by Hedwig S. Kuhn, 241
GRAUBARD, M., *Science in the University*, by members of the faculties of the University of California, 479

HAUSMAN, L. A., *Many Happy Days I've Squandered*, by Arthur Loveridge, 401
HUTCHINSON, E. P., *The American-Born in Canada*, by R. H. Coats and M. C. Maclean; and *The Canadian-Born in the United States* by Leon E. Truesdell, 81

KOONCE, S. D., *Calculus Refresher for Technical Men*, by A. A. Klaf, 242
KROGMAN, W. M., *Characteristics of the American Negro*, Edited by Otto Klineberg, 315

MEYER, B. S., *Lectures on the Inorganic Nutrition of Plants*, by D. R. Hoagland, 475
MONTAGU, M. F. A., *One Hundred Years of American Psychiatry*, published for the American Psychiatric Association, 162; *The Psychology of Women*, by Helene Deutsch, 315
MOULTON, G. F., *A Primer of Electronics*, by Don P. Caverly, 159

OEHSER, P. H., *The Life and Works of the Honourable Robert Boyle*, by Louis Trenchard More, 240; *The Pacific World*, edited by Fairfield Osborn, 317; *Pacific Ocean Handbook*, by Eliot G. Mears, 317; *The Gobi Desert*, by Mildred Cable with Francesca French, 399; *The Wolves of North America*, by Stanley P. Young, 478
OSBORN, M. F., *Health and Hygiene*, by Lloyd Ackerman, 159
OSBURN, R. C., *The Great Smokies and the Blue Ridge*, edited by Roderick Peattie, 78
OVERHOLSER, W., *Principles and Practice of Rehabilitation*, by John Eisele Davis, 316

PHILLIPS, R. W., *Food, War and the Future*, by E. Parmalee Prentice, 400
POMERANTZ, J., *Mr Tompkins Explores the Atom*, by G. Gamow, 239
POTTER, A. A., *Tomorrow We Fly*, by William B. Stout and Franklin M. Reck, 80
PRICE, J. W., *Handbook of Salamanders*, by Sherman C. Bishop, 81

ROBERTS, F. H. H., JR., *Old Oraibi, A Study of the Hopi Indians of Third Mesa*, by Mischa Titiev, 476

SMITH, P. A., *The Floor of the Ocean, New Light on Old Mysteries*, by Reginald Aldworth Daly, 157
SMITH, R. C., and M. H. TRYTTEN, *Medical Physics*, edited by Otto Glasser, 160
STETSON, H. T., *Spherographical Navigation*, by D. Brouwer, F. Keator and D. A. McMillen, 237
STEWART, T. D., *Mankind So Far*, by William Howells, 316
SUTTON, A. H., *Index Fossils of North America*, by Hervey W. Shimer and Robert R. Shrock, 319
SWANN, W. F. G., *America's Greatest Inventors*, by John C. Patterson, 77
SWINNERTON, A. C., *Structural Geology*, by Marland P. Billings, 157

TRYTTEN, M. H., see SMITH, R. C.

VERNON, H. C., *Rockets, The Future of Travel Beyond the Stratosphere*, by Willy Ley, 477

WADE, J. S., *The Illustrated Encyclopedia of American Birds*, by L. A. Hausman, 79; *Asia's Lands and Peoples*, by George B. Cressey, 238; *Man Does Not Stand Alone*, by A. Cressy Morrison, 318; *David Dale Owen, Pioneer Geologist of the Middle West*, by Walter Brookfield Hendrickson, 397
WADLEY, F. M., *Riddles in Mathematics*, by E. P. Northrop, 237
WOODMAN, L. H., *Plastic Horizons*, by B. H. Weil and Victor J. Anhorn, 397

### Original Verse

ALEXANDER, J., A Scientist's Psalm, 420

OEHSER, P. H., The Grapevine, 244

SCHMIDT, K. P., Things Eternal, 260; Uniformitarianism, 369
SINCLAIR, J. G., Shall We Speak Out?, 36; To Gene, 225; To Cells, 312; Erythros, 393; Means and Ends, 466

WHITNEY, BARBARA, Starlight, 450

### Comments and Criticisms

ADDELSTON, A., On "Science and the Supernatural," 323
AYERS, E., On "Science and the Supernatural," 323

FISHER, C. H., To Dr. A. J. Carlson, 84
FRANK, S., Teleology Reconsidered, 83
FULLERTON, R., On "Science and the Supernatural," 324

HAACK, T. T., El Dorado?, 243
HANKINS, F. H., On "Science and the Supernatural," 324
HARWOOD, E. C., Prometheus Bound, 163
HIDNERT, P., The Ragged Edge, 243
HILL, J. E., Animal Crackers, 244
HIRES, H., On "Science and the Supernatural," 323

JAKOBSEN, B. F., On "Science and the Supernatural," 324

MARSHALL, R. K., Decimation, 84
MEYERHOFF, H. A., The Older Worker, 404
MILHONE, D. W., On "Science and the Supernatural," 322

MOORE, J. S., On "Science and the Supernatural," 322
MORGAN, S. R., On "Science and the Supernatural," 321

NATIONS, G. O., On "Science and the Supernatural," 323

P. B., On "Science and the Supernatural," 323
PARK, J. E., On "Science and the Supernatural," 324
PARR, A. E., Pleasures and Purposes in Research, 83
PHILLIPS, R. W., Hybrid, 164
PIEPER, C. J., Adopted, 84

ROSENBERG, A., Philosophy and the Supernatural, 403

S. G. B., On "Science and the Supernatural," 324
SHEPPERD, W. B., Slanguage, 243
STOAKES, J. P., Fair and Warmer, 163

TELLER, W., On "Science and the Supernatural," 323

WATSON, J., On "Science and the Supernatural," 322
WYER, S. S., On "Science and the Supernatural," 322

## SUBJECT INDEX

### Principal Articles

Agriculture (Are We Facing Seven Lean Years?), C. F. TAEUSCH, 133
Agriculture, School of Pan American, C. M. WILSON, 29
American Negro, Physical Characters of the, M. F. A. MONTAGU, 56
Anthropology (The Great Aryan Myth), K. DUNLAP, 296
Aviation Medicine in the Army, E. G. REINARTZ, 451

Biotrepy—The Goose of the Golden Eggs, P. D. LAMSON, 215
Britain, Secondary Education in, T. D. A. COCKERELL, 307

Children, Convenience and Convention in Rearing, L. KANNER, 301
Cleveland—A Great Lake's Port, E. W. MILLER, 180
Communications (Science in Signal Corps Development), J. A. CODE, JR., 5; (Telegraphs and Telegrams in Revolutionary France), D. KOENIG, 431

Education, The Unity of Science in, C. I. GLICKSBERG, 16
Education (School of Pan American Agriculture), C. M. WILSON, 29; (Science in French Canada), P. DANSEREAU, 188; 261; (Secondary Education in Britain), T. D. A. COCKERELL, 307; (This Brave New World Again), C. F. MULLETT, 461
Electricity, Crystal Quartz: Mechanical Ally of, J. O. PERRINE, 325
Electronic Microscopy, V. K. ZWORYKIN and J. HILLIER, 165
Empiricism (An Empiricist's System of the Sciences), G. BERGMANN, 140
Entomology, Economic, in South America, E. J. HAMBLETON, 283
Evolution, Interdependence in Plant and Animal, A. GUNDERSON and G. T. HASTINGS, 63

Fish-Catchers, The Earliest Winged, E. W. GUDGER, 120
French Canada, Science in, P. DANSEREAU, 188; 261

Hair, Applied Microscopy of, L. A. HAUSMAN, 195
Hypotheses, The Method of Multiple Working, T. C. CHAMBERLIN, 357

Japan, Gokkanosho: A Remote Corner of, J. F. EMBREE, 343

Leishmaniasis, Cutaneous, in Mexico, E. BELTRÁN, 108

Man's Most Creative Years, Quality Versus Quantity of Output, H. C. LEHMAN, 384
Mathematics and Physics, On the Relation of, R. B. LINDSAY, 456
Medal Awards, National Academy of Sciences, P. BROCKETT, 424
Medicine, Aviation, in the Army, E. G. REINARTZ, 451
Metaphysics (The Principle of the Unobservable), H. M. DADOURIAN, 293; (A. A. Michelson Visits Immanuel Kant), A. BOYAJIAN, 438
Meteorology (When American Seasons Begin), S. S. VISHER, 363
Mexico, Cutaneous Leishmaniasis in, E. BELTRÁN, 108
Microscopy, Applied, of Hair, L. A. HAUSMAN, 195
Microscopy, Electronic, V. K. ZWORYKIN and J. HILLIER, 165
Military Science (Science Works with the Armed Forces), J. A. FURER, 130

National Academy of Sciences Medal Awards, P. BROCKETT, 424

Organic Form, The Problem of, S. J. HOLMES, 226; 253; 379

Pharmacology (Biotrepy—The Goose of the Golden Eggs), P. D. LAMSON, 215
Physics, On the Relation of Mathematics and, R. B. LINDSAY, 456
Plant Quarantines, Air-Borne Spores and, W. A. MCCUBBIN, 149
Precipitation and Stream Flow, C. S. JARVIS, 96
Proteins: The Machines of Life, M. F. PERUTZ, 47
Psychology (Convenience and Convention in Rearing Children), L. KANNER, 301

Quartz, Crystal: Mechanical Ally of Electricity, J. O. PERRINE, 325

Reclaiming Stripped Lands in Illinois, L. A. HOLMES, 414

Salmon, The Passing of the, J. W. HEDGPETH, 370
Seasons (When American Seasons Begin), S. S. VISHER, 363
Seaweeds, Utilization of, C. K. TSENG, 37
Senescence and Industrial Efficiency, II, E. J. STIEGLITZ, 9
Social Wisdom, Science and, S. BRODY, 203

South America, Economic Entomology in, E. J. HAMBLETON, 283
Spores, Air-Borne, and Plant Quarantines, W. A. MCCUBBIN, 149
Stones from Trees, C. MILTON, 421
Stream Flow, Precipitation and, C. S. JARVIS, 96
Stuttering (Do You Know Someone Who Stutters?), J. F. BENDER, 221
Supernatural, Science and the, A. J. CARLSON, 85

Trees of South Florida, J. C. GIFFORD, 21; 101
Tropical Diseases, Wartime Importance of, J. S. SIMMONS, 405

Wheel, Evolution of the, H. E. KLEINSCHMIDT, 273
World Maps, G. S. BRYAN, 245

**Science on the March**

Anthropology (Etna Cave, Nevada), F. H. H. ROBERTS, JR., 153
Arabic Block Print, An, G. DELLA VIDA, 473
Camouflage Paint Spray, S. W. BROMLEY, 75

Petroleum? Whither, A. BEVAN, 233
Photoperiodism in Plants, B. S. MEYER, 73
Photosynthesis or Photosyntheses, B. S. MEYER, 313
Pigments, Fossil, D. L. FOX, 394

Soils Take a Rest, W. A. ALBRECHT, 235
Sunspots, The New Cycle of, H. T. STETSON, 73

Teeth, Bad, Families and, W. M. KROGMAN, 235
Television, The Case of, H. T. STETSON, 155